



FIG. 1A

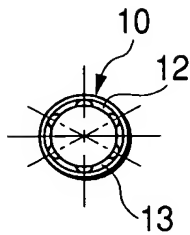


FIG. 1B

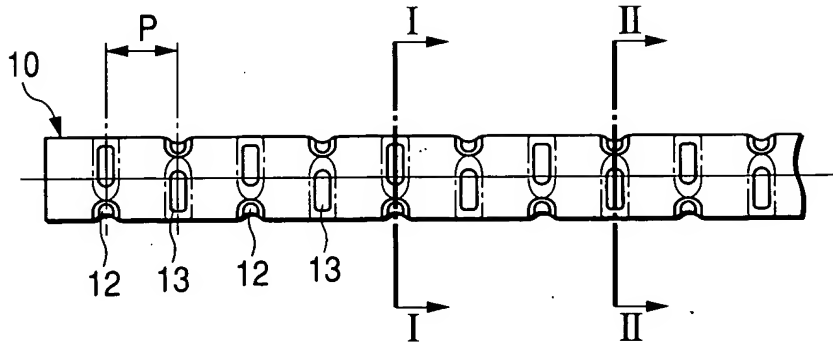


FIG. 1C

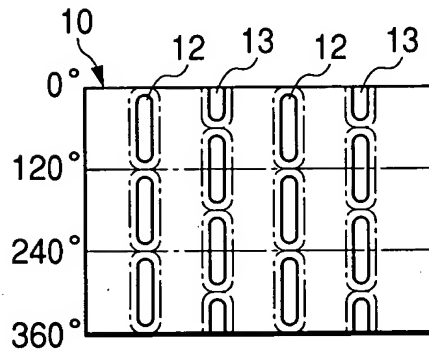
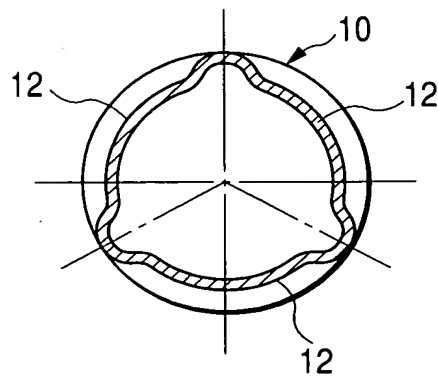
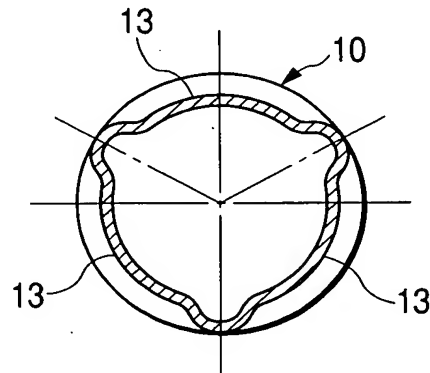


FIG. 2A



CROSS SECTION I-I

FIG. 2B



CROSS SECTION II-II

FIG. 3A

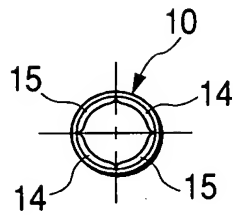


FIG. 3B

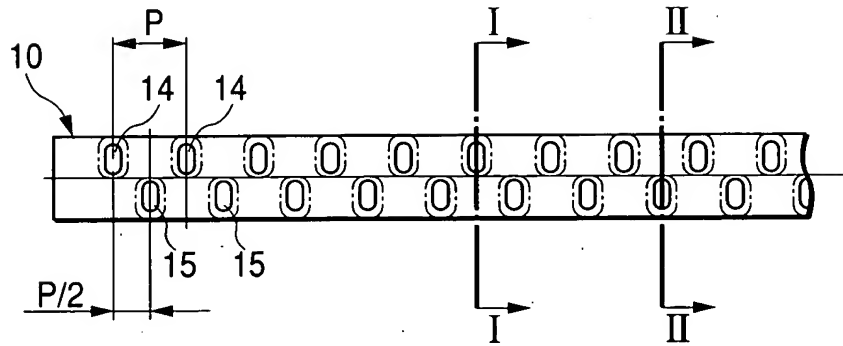


FIG. 3C

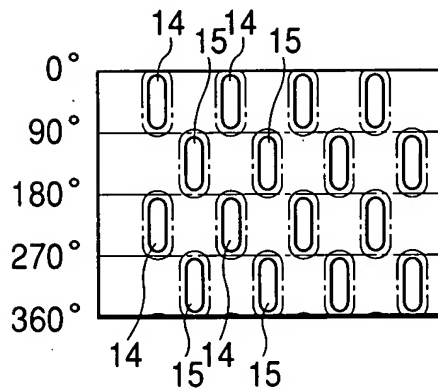
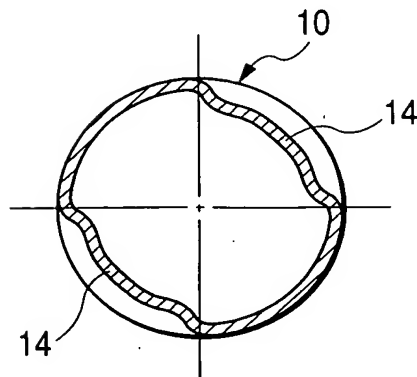
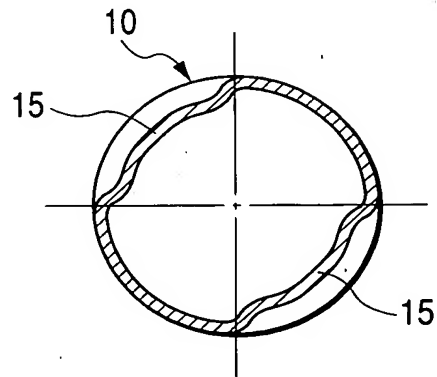


FIG. 4A



CROSS SECTION I-I

FIG. 4B



CROSS SECTION II-II

FIG. 5A

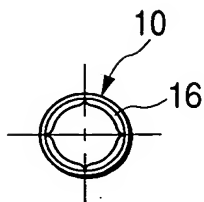


FIG. 5B

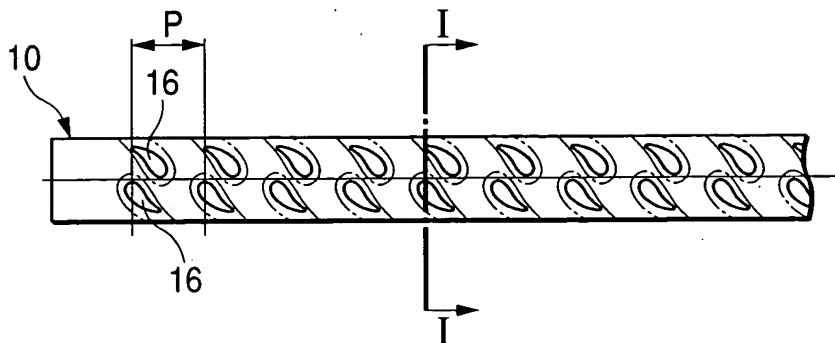


FIG. 5C

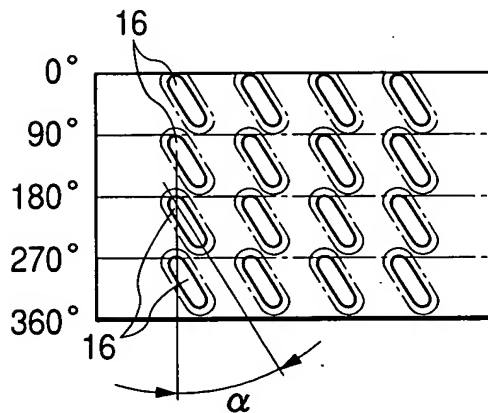
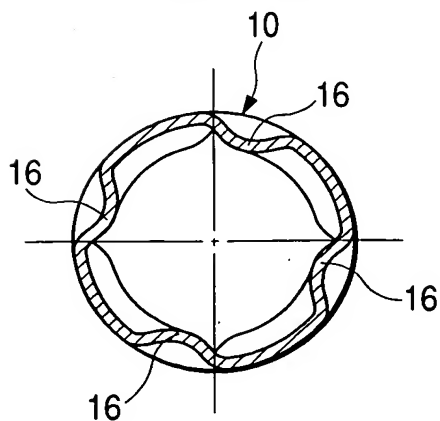


FIG. 6



CROSS SECTION I-I

FIG. 7A

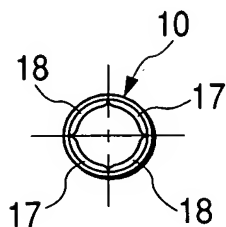


FIG. 7B

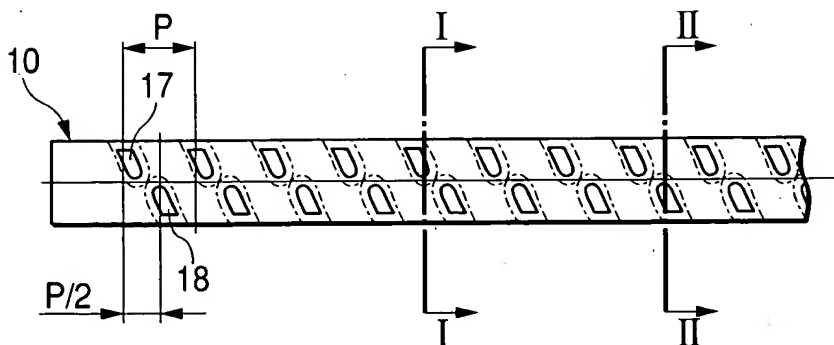


FIG. 7C

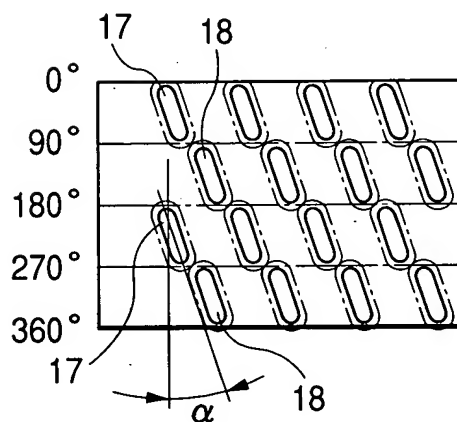
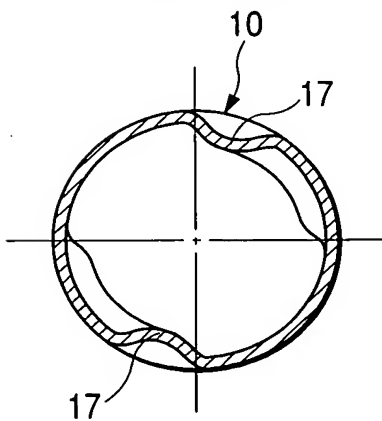
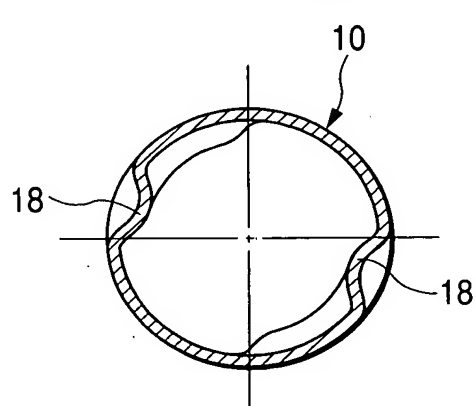


FIG. 8A



CROSS SECTION I-I

FIG. 8B



CROSS SECTION II-II

FIG. 9A

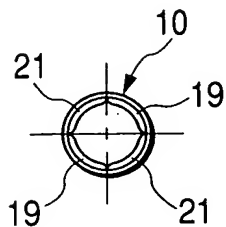


FIG. 9B

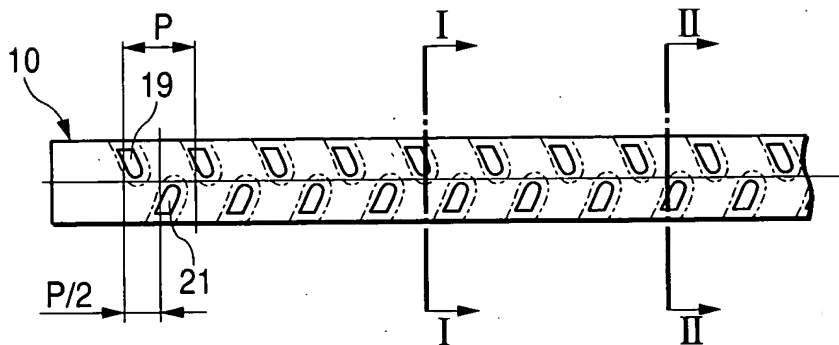


FIG. 9C

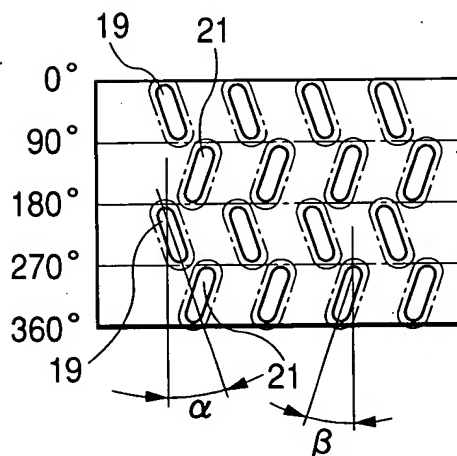
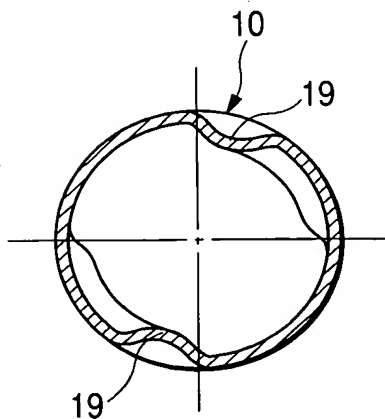
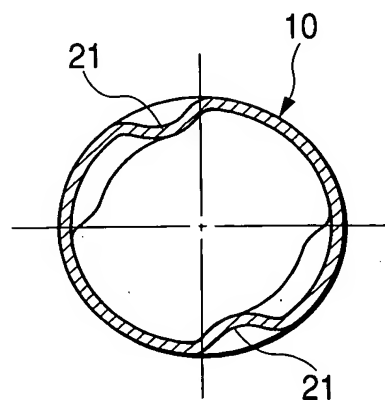


FIG. 10A



CROSS SECTION I-I

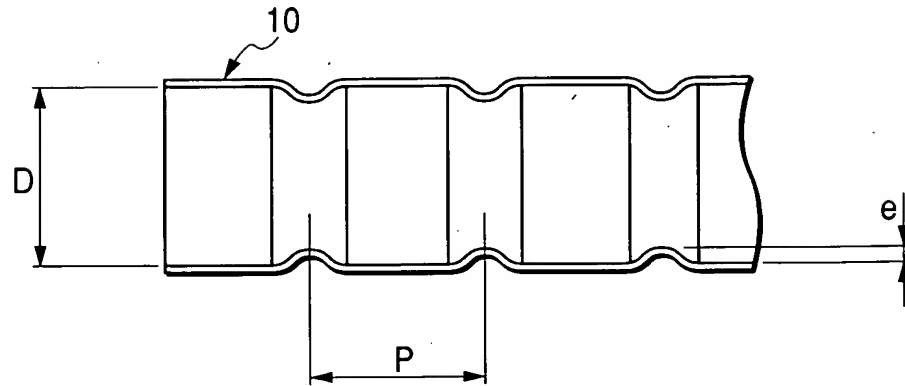
FIG. 10B



CROSS SECTION II-II

6 / 9

FIG. 11



D ; INNER DIAMETER OF TUBE	5mm TO 30mm
e ; BEAD HEIGHT	0.05D TO 0.2D
P ; BEAD PITCH	6e TO 25e

FIG. 12

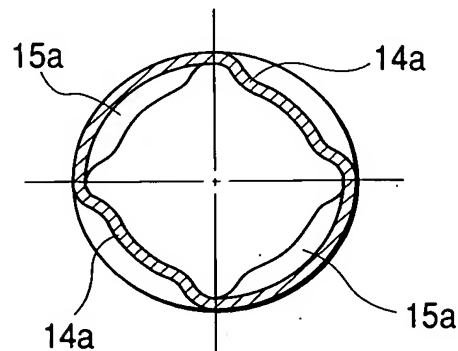


FIG. 13

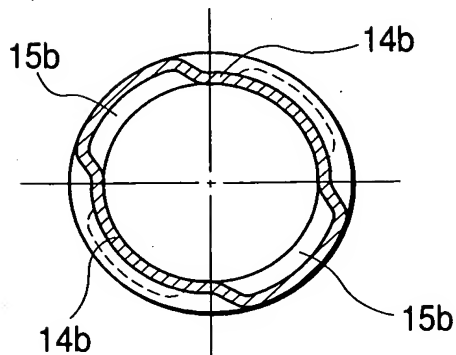
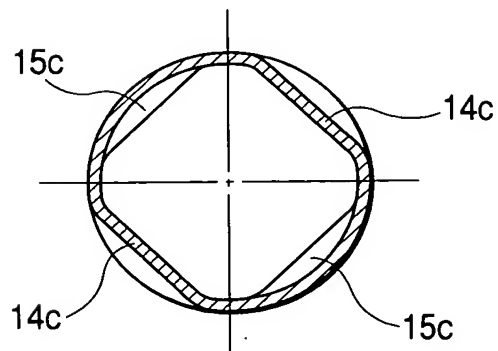


FIG. 14



HEAT RADIATING PERFORMANCE AND PRESSURE LOSS RESISTANCE INDEX OF TUBE OF EMBODIMENT IN THE CASE WHERE TWO - DIMENSIONAL PROTRUSION TUBE (RELATED ART) IS SET AT 100

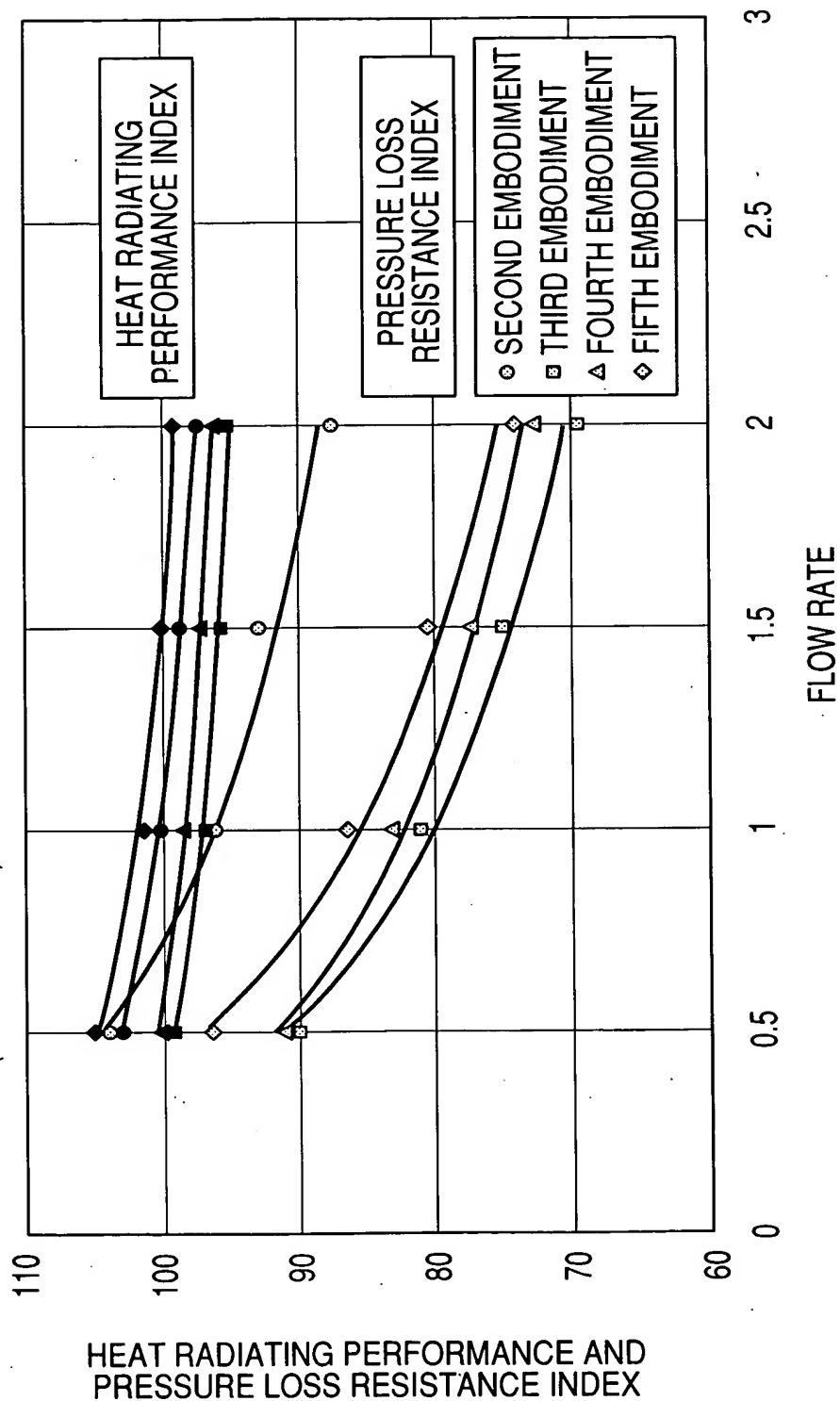


FIG. 16A

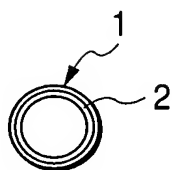


FIG. 16B

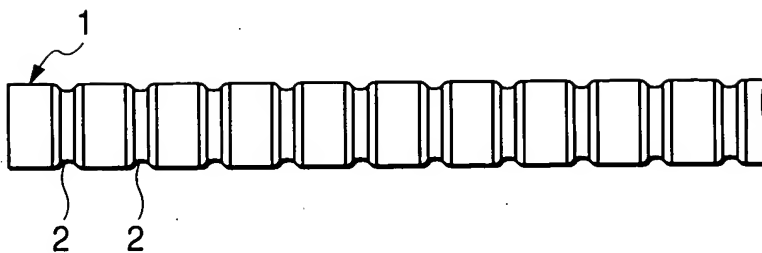


FIG. 17A

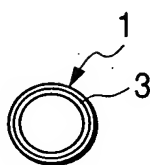


FIG. 17B

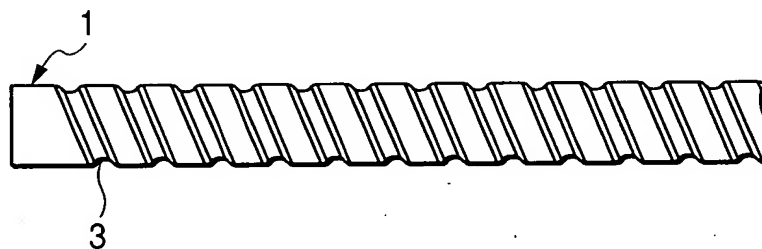


FIG. 18A

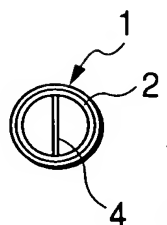


FIG. 18B

